ABSTRACT OF THE DISCLOSURE

The invention belongs to the technical domain of decoding, classification, alignment and matching of data.

The invention introduces a new method performing tasks in keyword spotting in utterances, detection of subsequences in chains of organic matter (DNA and proteins) and recognition of objects in images. The proposed method searches in an optimized way the matching that maximizes, over all the possible matchings, certain confidence measures based on normalized posteriors. Three such confidence measures are used, two existed in previous work in Speech Recognition, and the third one is a new one.

Application fields for this invention are: man-machine interfaces (using speech recognition; ex: control systems, banking, flight services, etc), coordination systems (for industrial robots and automata) and development systems for pharmaceutic products.